

## AMENDMENT

U.S. Appl. No. 10/631,220

Page 2

IN THE CLAIMS

Please amend the claims as indicated below:

1. (Canceled)

2. (Canceled)

3. (Currently Amended) An optical fiber for transporting a beam of light from a laser light source and projecting the beam of light towards a target in an even illumination pattern, comprising:

an input end for receiving the beam of light; and

an exit end for projecting the beam of light towards the target,

wherein the exit end has at least one diffractive binary or multi-level optical pattern formed thereon, wherein said optical pattern provides an even illumination pattern across the target,

wherein the diffractive optical pattern is formed by one of the group selected from etching, molding and cutting.

The optical fiber as described in claim 1, wherein the diffractive optical pattern is one of a binary or multi-level diffractive pattern.

4. (Canceled)

5. (Currently Amended) The optical fiber as described in claim 3~~1~~, wherein the exit end has a plurality of continuous optical diffractive patterns incorporated thereon.

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

## AMENDMENT

U.S. Appl. No. 10/631,220

Page 3

10. (Canceled)

11. (Canceled)

12. (Currently Amended) A system for recording images using a camera, comprising:  
a plurality of laser emitting diodes; and

a plurality of fiber optics coupled to respective laser emitting diodes at an input end  
thereof having an exit end with a binary or multi-level diffractive optical pattern formed thereon,

wherein the diffractive optical pattern is formed by one of the group selected from  
etching, molding and cutting,

wherein the exit ends of the fiber optics are arranged in a circular fashion around the  
camera,

wherein laser light emitted from each laser emitting diode travels through a respective  
fiber optic and is projected onto a target after passing through the diffractive optical pattern to  
illuminate a portion of the target for recording images of the target, and said laser light provides  
an even rectangular illumination pattern across the target.

~~The system as described in claim 7, wherein the diffractive optical pattern is one of a~~  
~~binary or multi-level diffractive pattern.~~

13. (Canceled)

14. (Currently Amended) The system as described in claim 12, wherein there are a  
plurality of optical diffractive patterns on the exit end of each fiber optic.

15. (Canceled)

16. (Canceled)